

# Atomic Projection Clock

63-987

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack Atomic Projection Clock combines a simple design with advanced technology. You can set the clock to project the current time on a wall or the ceiling for easy nighttime viewing.

You can also set the clock to automatically set the time and date, using a 60 kHz longwave radio signal from radio station WWVB. The clock checks the radio signal several times each day and automatically updates the time and date, providing the most accurate time possible. Or, if you are unable to receive the time-setting signal, you can set the clock manually.

**Large Liquid Crystal Display** — makes the clock easy to read. The current time and alarm time, the time zone you are in, and the date and day of the week appear on the display.

**Adjustable Projector** — lets you project the time on a wall or ceiling, rotate the image to the desired angle, and focus the image for clarity.

**Three Languages** — lets you review the day of the week in English, French, or Spanish.

**Display Backlight** — lets you see all the information on the screen, even in the dark.

**Indoor Thermometer** — lets you monitor the room's temperature.

## INSTALLING BATTERIES


Your clock requires 2 AA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

### Cautions:

- Use only fresh batteries of the required size and recommended type.
  - Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
1. Place your finger in the recess above the battery compartment cover and lift off the cover.

2. Place the batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.

3. Replace the cover.

When the display dims, the clock stops operating properly, or  (low battery icon) appears, replace the batteries.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use the clock with batteries for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

**Note:** Installing batteries resets the clock.

## USING AC POWER

You can save battery power by using the supplied 3V, 200 mA AC adapter to power the projector. Be sure to install batteries to power the clock, as the AC adapter does not power the clock.

### Cautions:



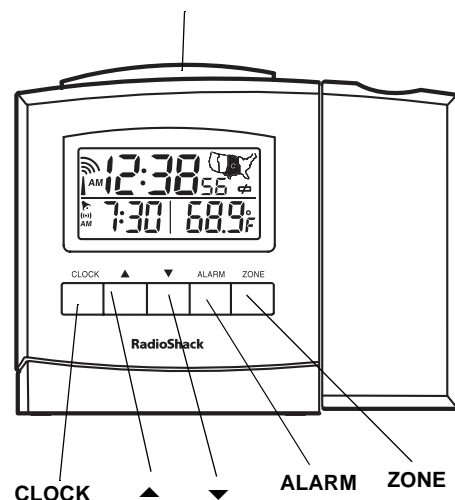
You must use a Class 2 power source that supplies 3V DC and delivers at least 200 mA.

Its center tip must be set to positive and its plug must fit the clock's **DC 3V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the clock or the adapter.


- Always connect the AC adapter to the clock before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the clock.
1. Plug the AC adapter's tip into the clock's **DC 3V** jack (in the recess on the bottom of the clock).
  2. Route the adapter's cord through the slot marked **DC 3V** on the back of the clock.
  3. Plug the AC adapter's other end into a standard AC outlet.

## BASIC OPERATION

((SNOOZE))



As soon as you install the batteries, all display segments briefly appear. **AM 12:00**, the seconds, **01 01** (January 1), and the current indoor temperature appear.

For about 3 minutes after you connect power, the clock scans for a radio signal and  flashes. When the clock receives a strong signal, it automatically sets the time and date. The clock checks the radio signal six times a day, at about 2:00 AM, 3:00 AM, 4:00 AM, 9:00 AM, 3:00 PM, and 9:00 PM (as shown on the clock).

### Notes:

- On very cloudy and stormy days, the signal might not be strong enough to reset the clock. If the clock does not receive a strong radio signal, you can set the time and date manually. (See "Manually Setting the Time, Date, and Language" on Page 2.)
- If the clock does not receive a strong signal within about 2 minutes, it stops scanning and looks for a signal again at the next preprogrammed time.

The time zone **P** (Pacific), **M** (Mountain), **C** (Central), or **E** (Eastern) appears in the map on the right of the screen. While the clock is scanning for a signal, repeatedly press **ZONE** until the desired time zone is highlighted.

Your clock measures and displays the indoor temperature between 23° and 122°F (-5° to 50°C). If the temperature goes above or



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below that range, the highest or lowest temperature flashes.

To change the display language, see “Manually Setting the Time, Date, and Language” on Page 2.

To display either the seconds or the day of the week, press **CLOCK**.

To view the time in another time zone, press **ZONE** until the desired time zone is highlighted.

CHECKING THE SIGNAL STATUS

The clock displays these symbols to indicate the current or last status of radio signal reception.

Symbol	Description
	The clock received a radio signal strong enough to set the date and time within the last 72 hours.
	The clock has not received a radio signal strong enough to set the date and time within the last 72 hours. Reposition the clock before the designated signal check time, or set the date and time manually. Or, the displayed time has been manually set.
No Indicator	Automatic time setting is turned off. Hold down  until  appears, or reset the clock.
	The clock is receiving the radio signal and the time/date sets shortly.
	The clock is receiving a signal, but reception is not strong enough to set the clock.

MANUALLY SETTING THE TIME, DATE, AND LANGUAGE

**Important:** A strong radio signal overrides the manual setting. If you do not want this to happen, hold down **ZONE** until the time icon disappears to turn off the automatic time setting. To turn the automatic time setting back on, hold down for about 2 seconds until appears, or reset the clock.

**Note:** If you do not press a button for about 1 minute, the clock returns to the currently set time display.

1. Repeatedly press **ZONE** to select the desired time zone.
2. Hold down **CLOCK** until the hour digits flash.
3. Repeatedly press (or hold down) or to select the desired hour setting. **AM** or **PM** appears.
4. Press **CLOCK**. The minutes digits flash.

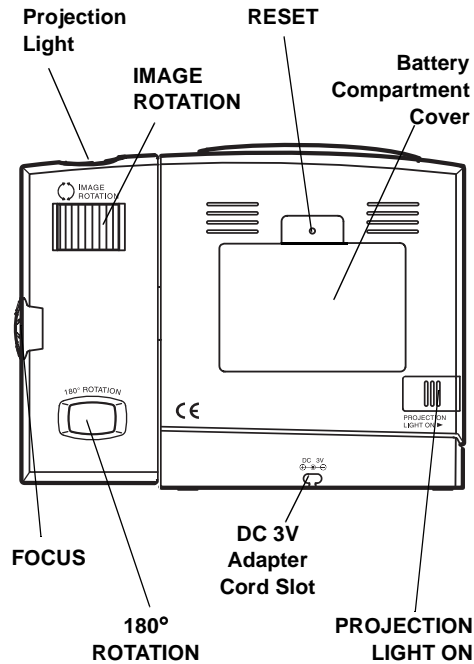
5. Repeat Steps 3 and 4 to set the minutes, year, month, date, and language.
6. Press **CLOCK** to store your setting. Then repeatedly press **CLOCK** to select the weekday or second display.

RESETTING THE CLOCK

Press **RESET** on the back of the clock with a pointed object such as a straightened paper clip to reset the clock. All display segments briefly appear, then the clock scans for a radio signal.

USING THE PROJECTION LIGHT

You can use the clock’s projection light to project the time on a wall or ceiling.



To project the time, place the clock at least 18 inches from the desired surface and adjust the projection arm to the desired angle. Then slide **PROJECTION LIGHT ON** on the back of the clock in the direction of the arrow to turn on the light.

**Caution:** The projection arm moves about 90 degrees in either direction. Do not force it further.

**Note:** **PROJECTION LIGHT ON** only operates when the clock is connected to AC power.

To focus the image, adjust **FOCUS** on the side of the projection arm.

To rotate the image, turn **IMAGE ROTATION** on the back of the clock.

To flip the image 180°, press **180° ROTATION**.

To turn off the projection light, slide **PROJECTION LIGHT ON** toward the projection arm.

With the projection light off (or when powering the clock using batteries only), you can project the time by pressing **SNOOZE**. The projector lights for about 5 seconds then automatically turns off.

USING THE ALARM

SETTING THE ALARM TIME

**Note:** If you do not press a button for about 30 seconds, the clock exits the alarm setup mode. Start over at Step 1.


1. Hold down **ALARM** until the alarm hour flashes. (alarm on) and (alarm time) appear.
2. Repeatedly press or hold down or to select the alarm hour.
3. Press **ALARM**. The alarm minutes flash.
4. Repeatedly press or hold down or to select the alarm minutes.
5. Press **ALARM** to store the alarm setting. The alarm time remains on the display.

To view the alarm display at any time, press **ALARM**. To return to the calendar display, press **CLOCK**.


TURNING THE ALARM ON/OFF

1. Press **ALARM** to turn on the alarm. appears.
- At the preset alarm time, flashes on the display and the alarm beeps softly every 2 seconds.
- If you do not silence the alarm, after 20 seconds, two quick beeps sound every 2 seconds and the alarm volume increases. After 20 more seconds, three quick beeps sound every 2 seconds and the volume increases to its maximum level. After another 20 seconds, the alarm beeps continuously (about four beeps per second) for about 1 minute.

After 2 minutes, the alarm turns off automatically. The first time this happens, the snooze feature activates and continues flashing. In about 8 minutes, the alarm sounds again. If the alarm turns off automatically a second time, remains on the display and the alarm sounds again the next day at the set alarm time.

2. Press **ALARM** to turn off the alarm.  disappears.

**USING SNOOZE**

When the alarm sounds, press **SNOOZE** to silence the alarm for about 8 minutes.  flashes. After 8 minutes, the alarm sounds again.

**CARE**

Keep the clock dry; if it gets wet, wipe it dry immediately. Use and store the clock only in normal temperature environments. Handle the clock carefully; do not drop it. Keep the clock away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the clock's internal components can cause a malfunction and might invalidate its warranty. If your clock is not performing as it should, take it to your local RadioShack store for assistance.

**SPECIFICATIONS**

Batteries .....	Two AA Batteries
AC Adapter .....	3V DC
Operating Temperature ..	23° – 122°F (–5° – 50°C)
Snooze Time .....	About 8 minutes
Accuracy .....	± 0.5 Second/Day
Dimensions .....	4.57 × 5.91 × 1.65 inch (116 × 150 × 42mm)
Weight (without batteries) .....	8.47oz (240g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

**Limited One-Year Warranty**

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or re-installation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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